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OLEFIN POLYMERIZATION CATALYST AND OLEFIN POLYMERIZATION METHOD

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- 14.2 (ORGANIC CHEMISTRY--- High Polymer Molecular Compounds)
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- R047 (CHEMISTRY--- Liquid Rubber)

Abstract:
PROBLEM TO BE SOLVED: To obtain a catalyst which has excellent olefin polymerization activity and gives a high-molecular-weight polymer by using as the constituents a specified transition metal amide compound and compound(s) selected from an organometal compound, an organoaluminum oxy compound and a compound that reacts with a transition metal amide compound to form an ion pair.

SOLUTION: The transition metal amide compound used is represented by the formula (wherein M is an atom of any one of groups 3 to 6 transition metals; R(sup 1) to R(sup 10) are each H, halogeno, a (halogenated) hydrocarbon group, organosilyl, alkoxy, aryloxy, etc., provided that at least one of R(sup 1) to R(sup 5) and R(sup 6) to R(sup 10) respectively is a group other than H; m is 0 to 2; n is 4 or 5; A is an atom of any one of groups 13 to 16 elements; E is a substituent having at least one atom selected from C, H, O, a halogen atom, N, S, P, B and Si; p is 0 to 4; and X is H, a halogen atom, a 1-20C

(halogenated) hydrocarbon group, an O-containing group, an S-containing group, or an Si-containing group). Examples of at least one compound selected include trimethylaluminum, aluminoxane and trifluoroborane.

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